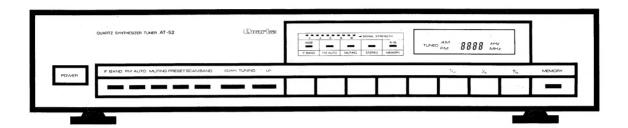
AKAI SERVICE MANUAL



QUARTZ SYNTHESIZER TUNER MODEL AT-52/L

SPECIFICATIONS

FM Tuner section	AM tuner section (MW	& LW for AT	-52L)
Tuning frequency range		AM tuner Section	LW tuner Section
Usable sensitivity 11.2 dBf		(MW for	(for AT-52L)
Quieting sensitivity $(S/N = 50 \text{ dB})$ 16.2 dBf (Mono)/37.2 dBf (Stereo)	Tuning frequency	AT-52L	
Capture ratio	range	531kHz to 1,602 kHz	160 kHz to 340 kHz
Narrow 90 dB	Usable sensitivity	,	
Wide	(Loop antenna) Selectivity	•	800 μV/m 50 dB
IF rejection ratio 85 dB	Image rejectionIF rejection	40 dB	40 dB 30 dB
Spurious rejection 90 dB AM suppression	S/N	40 dB	35 dB
Sub carrier suppression 60 dB	T.H.D Output level	1.0%	2.0%
S/N (IHF)	FM	700 mV (100%	Mod.)
Narrow 0.15% (Mono)/0.35% (Stereo)	(MW for AT-52L)	,	,
Wide	Power requirements	220V, 50 Hz fo Except UK	r Europe
Narrow		240V, 50 Hz fo 110 - 120V/22	
Frequency response 30 Hz to 15 kHz \pm 1.0 dB		50/60 Hz conve	•
	Dimensions		, , ,
	Weight	,	

^{*} For improvement purposes, specifications and design are subject to change without notice.

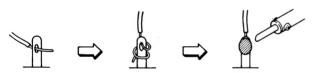
PRECAUTIONS DURING SERVICING

- Parts identified by the symbol are critical for safety.
 Replace only with parts number specified.
- 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.

These must also be replaced only with specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



 Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 M ohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for $\boxed{\textbf{C}}$ or $\boxed{\textbf{A}}$, specified insulation resistance should be headphone jacks, line-in-out jacks, etc. more than 2.2 M ohms (ground terminals, microphone jacks).

PRECAUTION FOR THE LITHIUM BATTERY

The lithium battery may explode when heated excessively. [OBSERVE THE FOLLOWING WHEN REPLACING]

- Replace with the same make and type only.
- Use soldering iron in "recommended way" only.
- Place battery in correct polarity.
- Do not short the terminals.
- Do not recharge battery.
- Do not dispose of battery in fire.







[RECOMMENDED-WAY]

★INFORMATION

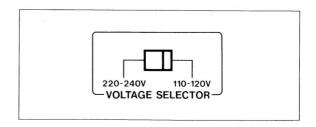
SYMBOL FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
A	USA
В	UK
С	Canada
E	Europe (except UK)
J	Japan
S	Australia
V	W. Germany only
U	Universal Area
Y*	Custom version

VOLTAGE CONVERSION (U) Model only)

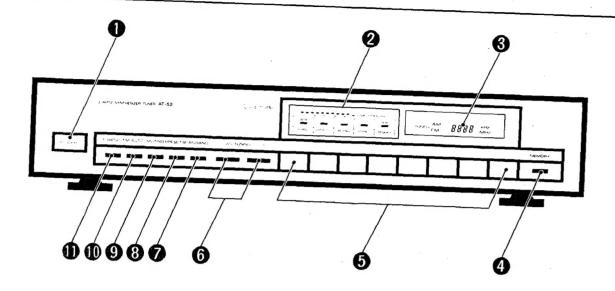
Before connecting the power cord, SET the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltagte is indicated.



ABBREVIATIONS (TUNER)

Abbreviation	Explanation	Abbreviation	Explanation
AFC	Auto Frequency Control	МЕМО	MEMOry
AGC	Auto Gain Control	MI-COM	MIcro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	Multi PleX
ANT	ANTenna	MW	Medium Wave(frequency)
BATT	BATTery	NC	No Connection
BLK	BLocK	NFB	Negative Feed Back
BUFF	BUFFer	OSC	OSCillator
COMP	COMParator	PCB	Printed Circuit Board
DET	DETect (DETctor)	PLL	Phase Locked Loop
FLD	. •	Q.D	Quadrature Detector
FM _.	Frequency Modulation	Rch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REĠ	REGulator
Н	High	RF	Radio Frequency
HPF	High Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institut of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	SWitch: Short Wave (frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emitining Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Oscillator
LW	Long Wave(Frequency)	VR	Variable Resistor
	·	X'TAL	Crystal

I. CONTROLS

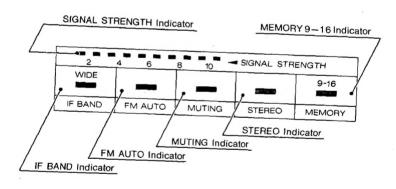


- POWER Switch
 To turn the power on and off.
- LED (Light Emitting Diode) Indicators
 Tells you which mode the tuner is in.
- 3 FL (Fluorescent) Display Shows tuning information.
- 4 MEMORY button

 To memorize preset stations. Press the button once to preset station numbers 1 to 8. Press the button twice to preset station numbers 9 to 16.
- Preset Station Buttons (1 to 16)
 To memorize preset stations and tune in memorized stations.

- TUNING Control buttons (UP/DOWN)
 To tune in a station manually.
- **BAND Button**To select the band.
- PRESET SCAN Button
 To select the preset scanning mode of the tuner.
- MUTING button To cut interstation noise during FM station tuning.
- FM AUTO button To select FM AUTO or monoaural mode.
- IF BAND Select button
 To select the wide or narrow FM IF (Intermediate Frequency) band.

LED Indicators



SIGNAL STRENGTH Indicators

Tells you the strength of the tuned in station's signal.

WIDE Indicator

Tells you the IF band of the tuner is set to WIDE.

MUTING Indicator

Tells you the muting system is engaged.

STEREO Indicator

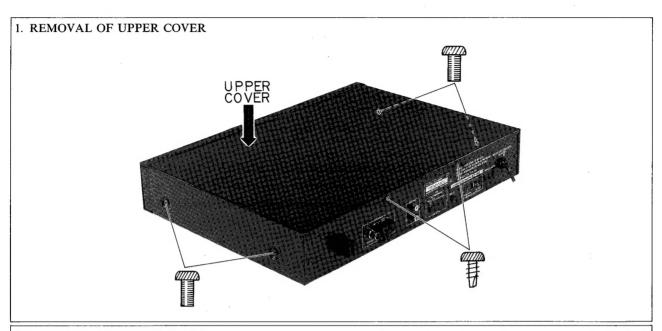
Tells you the received FM broadcast program is in the stereo mode.

MEMORY 9-16 Indicator

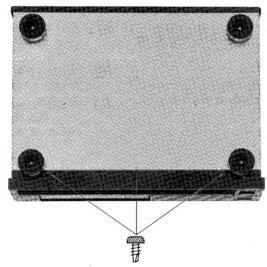
Tells you the preset station number is between 9 and 16.

II. DISASSEMBLY

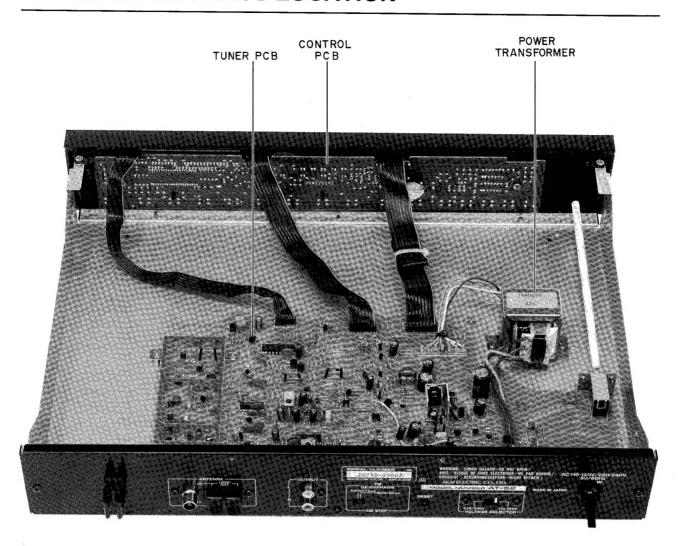
In case of trouble, etc, necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.



2. REMOVAL OF FRONT PANEL



III. PRINCIPAL PARTS LOCATION



4-1. INSTRUMENT CONNECTIONS

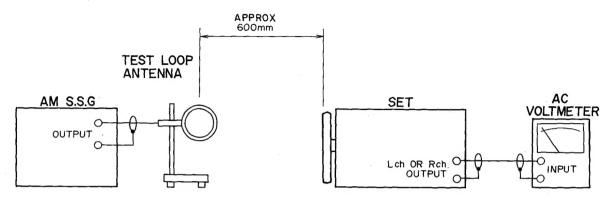


Fig. 4-1 Instrument Connection of AM Adjustment

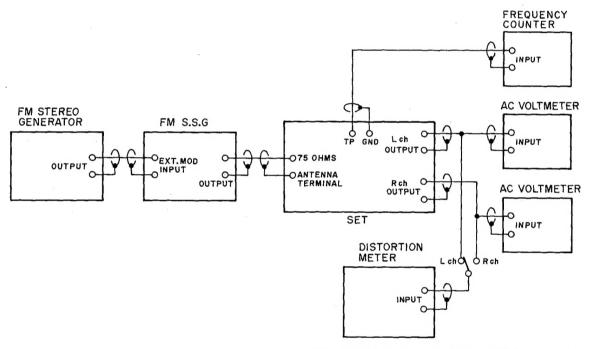


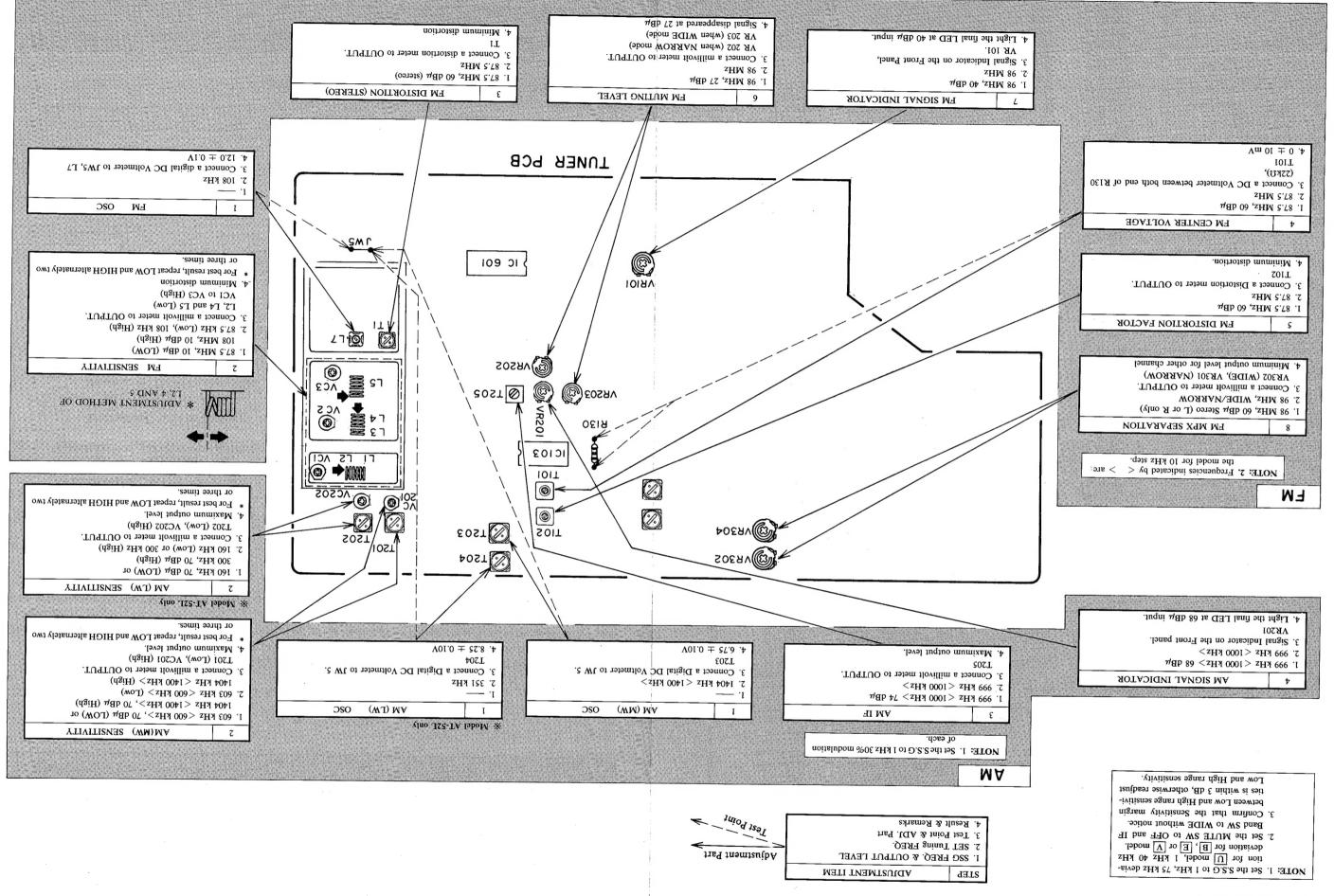
Fig. 4-2 Instrument Connection of FM Adjustment

4-2. HOW TO CALL THE PRESET FREQUENCY FOR THE ADJUSTMENT

Press the RESET SW on the REAR PANEL. The internal frequency preset memory is set as below.

	CH1	CH2	СНЗ	CH4	CH5	СН6	СН7	СН8
AT-52 <u>U</u> (10 kHz step)	AM 600 kHz	AM 1000 kHz	AM 1400 kHz	AM 1610 kHz	FM	FM	FM	FM
AT-52 E V (9 kHz step) AT-52L E B (9 kHz step)	AM 603 kHz	AM 999 kHz	AM 1404 kHz	AM 1602 kHz	90.0 MHz	98.0 MHz	106.0 MHz	108.0 MHz

СН9	CH10	CH11	CH12	CH13	CH14	CH15	CH16
FM	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	FM	FM	FM	FM
87.5 MHz	AM 160 kHz	AM 200 kHz	AM 300 kHz	87.5 MHz	87.5 MHz	87.5 MHz	87.5 MHz



4-3. ADJUSTMENT

IC LA3410	El-348863	IC301			
IC I \$3\$10 IC F¥1508	El-719341	IC301			
IC BA401	El-337964	10102			
IC BA401	El-337964	10101			
FILTER LP 428-1083-03	EH-721705J	FL302			
EIFLER CE BEU460C4N 0.450MHZ	EH-1511027 EH-344434	FL201			
FILTER CE SFLAFOCAN O ABONUZ	EH-706132	FL201			
FILTER LP 4285200-05	EH-721706J	FL105	H1-SEOSRA MUIHTIJ YRATTAB	%EZ-328816	28
FILTER CE SFE10.7MMKA 10.7MHZ	EH-316407	FL104	7R 2SD1406 0,Y,GR	*ET-349459	29
FILTER CE SFE10.7MMKA 10.7MHZ	EH-312407	FL103	TR 2SC930 F	ET-347961	99 99
FILTER CE SFE10.7MMKA 10.7MHZ FILTER CE SFE10.7MMKA 10.7MHZ	EH-31240\ EH-31240\	FL101	TR 25C630 F	ET-349592	99 79
D SILICON H GMA-01-FY2 F05	ED-344280	D812	TR 25C3383 5,T	ET-349081	23
D SILICON H GMA-01-FY2 F05	ED-344580	p180	TR 2SC3330 F05	E1-323898	25
D SILICON H GMA-01-FY2 F05	ED-344580	D813	TR 2SC2999 C,D	ET-336869	21
D SENEK H GZA5.1 Y D SILICON H GMA-01-FY2 F05	ED-108046 ED-344580	D811	T,2 S281325, T H,0 V-808825 AT	*ET-336997	09 67
D ZEVER H GZA15 Y	*ED-715992	D810	[n]	012010 11	•
D SENER H GZA5.1 X	ED-712000	D809	U,T,2 T1E! A2S AT	ET-353899	87
D ZENER H GZA15 Y	*ED-715992	D808	TR FET 3SK107 E,F AKAI	ET-337743	Lt
D SENER H GZAS2 X	ED-115858 ED-1518821	D804	TR FET 2SK246 GR	ET-337759 ET-337759	9† 9†
D ZENER H GZA 12 X	ED-712926	D802	TR FET 25K161 GR	ET-363326	77
D SILICON DBB10C 200/1.0A	*ED-342222	D804	[RESET]		
D SIFICON DS132D 500 1.0A	*ED-321124	D803	SW TACT SKHHLQ	ES-721688J	43
D SILICON H GMA-01-FY2 F05	ED-344280	D805	SW TACT SKHHAK003A	E2-349367	42
D SILICON H GMA-01-FY2 F05	ED-344580 ED-344580	D803	[U] [DE-EMPHA / AM-STEP]	E2-344436	lτ
D ZEVER H GZA9.1 X	ED-712927	D602	[U] [VOLTAGE SELECTOR]	007776 33	• • •
D SIFICON H CMA-01-FY2 F05	ED-344580	D601	SW SLIDE 00120319 01-2	*E2-349464	01⁄2
D SIFICON H D2448	ED-301911	D301	[POWER]		
D SIFICON H GWY-01-EAS E05	ED-344580	D502	SW PUSH SDLD1P 01-1	*E2-33\805 EW-323\80	38 38
D SIFICON H GMA-01-FY2 F05	ED-344580 ED-323835-V	D504	OSC X'TAL HC-18/U 7.200MHZ	El-344422	38 22
D VARACTOR SVC321SPA C,D DBL	ED-323692-A	DSOS	OSC CE CSB426F11 0.456MHZ	El-349970	98
D SILICON H 152186	ED-311185	DSO1	OSC CE CSB400P 0.400000MHZ	El-348409	32
D SIFICON H GWY-01-EAS E05	ED-344580	DIII	IC LM7000N	El-324921	34
D SILICON H GMA-01-FY2 F05	ED-344580 ED-344580	D110	IC FB1403	El-342221 El-34663	33
D SIFICON H D2448	ED-301911	D108	IC LA 1266	El-719341	31
D SILICON H GMA-01-FY2 F05	ED-344580	DIOZ	IC BU4013B	El-326457	30
D SILICON H GMA-01-FY2 F05	ED-344580	D108	IC BV401	El-337964	53
D SIFICON H CWA-01-FY2 F05 D SILICON H CMA-01-FY2 F05	ED-344580 ED-344580	D104	IC A3048-714 AKA! COSTOM FILTER LP 4285200-05	EI-328818 EH-151100	77 82
D SILICON H GMA-01-FY2 F05	ED-344280	D103	FILTER LP 42B-1083-03	EH-721705J	97
D SILICON H GMA-01-FY2 F05	ED-344580	D102	FILTER CE SFZ450A	EH-706132	72
D SILICON H GMA-01-FY2 F05	ED-344580	DIOI	FILTER CE SFE10.7MMKA 10.7MHZ	EH-316407	24
D VARACTOR SVC211SPA A,B,C,D,E D VARACTOR SVC211SPA A,B,C,D,E	ED-336835-V ED-336835-V	D3	FILTER CE BFU450C4N 0.450MHZ [U]	EH-344434	23
D VARACTOR SVC2115PA A,B,C,D,E	ED-336832-A	DS	FUSE TSC A 250V 200MA	*EE-308933	22
D VARACTOR SVC211SPA A,B,C,D,E	ED-336832-A	DI	[B'E'\]		
[n]			FUSE BET T 250V 400MA	*EE-329345	21
C CE A E 103Z 720VC	*EC-350248	C814	D ZENER H GZA5.6 X	ED-115351 ED-115358	07 18
C CE V FZ 472P 400AC	*EC-338496	C813	D ZENER H GZA5.1 Y	ED-713038	81
C CE V F 103Z 250AC	*EC-350248	1080	D ZENER H GZA5.1 X	ED-712000	41
Description	Part No.	Ref. No.	D SENER H GZA22 X	ED-721695J	. 91
		, .	D ZENER H GZA2.2 X	ED-1516961 *ED-112992	12 ·
αx	ER P.C BOA	3. TUN	D ZENER H GZA15 X	ED-715992	13
-			D VARACTOR SVC321SPA C,D DBL	ED-323692-A	12
			D VARACTOR SVC211SPA A,B,C,D,E	ED-336832-A	11
			D SIFICON H 185186	ED-371782	oı
			D SIFICON H CWY-01-EAT E05 D SIFICON H D2448	ED-344580 ED-301811	6 8
			D SILICON DS135D 200/1.0A	*ED-321124	Ĺ
[E,B]	L472257-A8	7	D SILICON DBB10C 200/1.0A	*ED-342222 ED-1533217	9 9
PC TUNER BLK AT-52L(E,8)	L669127-A8	αı	D LED MPGE76X GRN [E,V][T901]	ED-721694J	t
[E,B] PC TUNER BLK AT-52(V)	L007127-A8	າເ	[8] [7901] TRANS POWER AT-52 \ L(E,V)	*BT-721684J	3
[U] PC TUNER BLK AT-52(E,B)	L207127-A8	18	[1091] [U] (B) J\S-TA R3W09 PMART (1097) [8]	*BT-721685J	7
PC TUNER BLK AT-52(U)	LIOTIST-A8	٨١	(U) SB-TA REWS POWER AT-52 (U)	L788127-T8*	ι
Description	Part No.	Ref. No.	Description	Part No.	Ref. No.
2. Р.С ВОАЯР ВГОСК			STAA9 3AA9S	OWWENDED	1. REC

VLLENLION

If not, a part different from the one you ordered may be delivered. 2. Please make sure that Part No. is correct when ordering. Otherwise, the non-delivery of the part or the delivery of a wrong part may result. 1. When placing an order for parts, be sure to list Part No., Model No. and the description of each part.

3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes,

please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

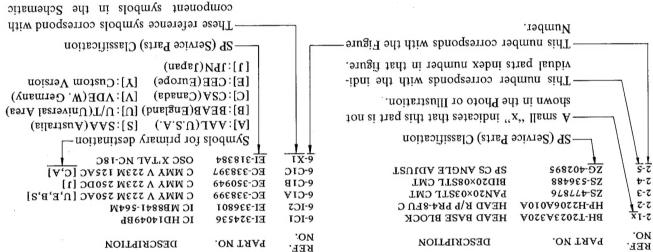
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked. 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and

3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.

4. How to read the Parts List.

by its Reference No. listed at right of Part No.





5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List The available PC Board Blocks are listed separately.

MYBNING

CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS. Δ (*) Indicates safety critical components. For continued safety, replace safety

VAERTISSEMENT

DE SECURITE DE L'APPAREIL, NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE Δ (*) il indique les composants critiques de sécurité, pour maintenir le degré

FABRICAUT.

ICAGO ICA IC	Ref. No.	Part No.	Description
J301 EJ-719343 PIN J YKC21-0048A 2P (OUT PUT)			
J301 EJ-719343 PIN J YKC21-0048A 2P DUT PUT	J101	EJ-359031	
L1 E0-349461 COL FNZ 2 LINK L2 E0-349462 COL FNZ 2 LINK L4 E0-349462 COL FNZ 2 LINT L5 E0-349462 COL FNZ 2 LINT L6 E0-721689J COL FNZ 2 LINT L7 E0-349446 COL FNZ 2 LINT L8 E0-721689J COL FNZ 2 TFE2-OSC-U L801 E0-338409 COL FNZ 2 TFE2-OSC-U L801 E0-338409 COL FNZ 2 TFE2-OSC-U L801 E0-338409 R CB H S10 FS RDS 1 / 4W 560J R802 #ER-32437 R CB H S10 FS RDS 1 / 4W 560J R804 #ER-324184 R CB H S10 FS RDS 1 / 4W 561J R806 #ER-324184 R CB H S10 FS RDS 1 / 4W 561J R801 #ER-320940 R CB H S10 FS RDS 1 / 4W 561J R802 ES-344439 SW TACT SKHHLQ SW202 ES-344439 SW JEDE 00420451 2-04-02 [U] [DE-EMPHA / AM-STEP] SW901 #ES-337902 SW PUSH SOLDIP 01-1 [POWER] SW901 #ES-34964 SW SLIDE 00420451 2-04-02 [U] [UVOLTAGE SELECTOR] TR1 ET-337743 TR FET 3SK107 E,F AKAI TR2 ET-336865 TR 2SC930 F TR4 ET-349449 TR FET ZSK161 0.Y TR103 ET-349449 TR FET ZSK161 0.Y TR103 ET-328265 TR 2SC930 F TR104 ET-358398 TR 2SC3330 F05 TR105 ET-358398 TR 2SC3330 F05 TR105 ET-358398 TR 2SC3330 F05 TR106 ET-358398 TR 2SC3330 F05 TR107 ET-349081 TR 2SC3333 ST TR110 ET-349081 TR 2SC3333 F05 TR111 ET-353899 TR 2SC3330 F05 TR112 ET-358399 TR 2SC3330 F05 TR113 ET-349081 TR 2SC3333 F05 TR114 ET-358399 TR 2SC3330 F05 TR115 ET-349081 TR 2SC3333 F05 TR111 ET-353898 TR 2SC3330 F05 TR112 ET-353898 TR 2SC3330 F05 TR113 ET-349081 TR 2SC3333 F05 TR111 ET-358399 TR 2SC3330 F05 TR110 ET-349081 TR 2SC3333 F05 TR110 ET-35899 TR 2SC3330 F05 TR110 ET-35899 TR 2SC33	J301	EJ-719343	
L2 E0-349461 COIL FIX 2 U147 L3 E0-349461 COIL FIX 2 U147 L4 E0-349462 COIL FIX 2 U147 L5 E0-349462 COIL FIX 2 U147 L6 E0-721689J COIL FIX L14-75 2P2K L7 E0-349446 COIL FIX EV147 L801 E0-338409 COIL FIX L14-75 2P2K L7 E0-349446 COIL FIX EV147 L801 E0-338409 COIL FIX L14-75 2P2K L801 E8-R-32437 R CB H S10 FS RDS 1/4W 560J R822 *ER-322287 R CB H S10 FS RDS 1/4W 560J R824 *ER-306805 R CB H S10 FS RDS 1/4W 10J R806 *ER-309940 R CB H S10 FS RDS 1/4W 10J R806 *ER-324184 R CB H S10 FS RDS 1/4W 10J R806 *ER-324184 R CB H S10 FS RDS 1/4W 12J R812 *ER-322421 R CB H S10 FS RDS 1/4W 12J R812 *ER-322421 R CB H S10 FS RDS 1/4W 12J R812 *ER-324241 R CB H S10 FS RDS 1/4W 12J R812 *ER-337902 SW PUSH S0LD10 O0420451 2-04-02 [U1 [DE-EMPHA/AM-STEP] SW801 *ES-337902 SW PUSH S0LD10 10-11 [POWER] SW901 *ES-349464 SW SLIDE O0120319 01-2 [U1 [VOLTAGE SELECTOR] TR1 ET-337743 TR FET 35K107 E,F AKAI TR2 ET-338689 TR 25C330 F TR4 ET-349449 TR FET 25K161 0,Y TR101 ET-328265 TR 25C930 F TR102 ET-349449 TR FET 25K161 0,Y TR103 ET-328265 TR 25C930 F TR104 ET-35898 TR 25C3330 F05 TR105 ET-353898 TR 25C3330 F05 TR106 ET-353898 TR 25C3330 F05 TR106 ET-353898 TR 25C3330 F05 TR107 ET-349081 TR 25C3333 F05 TR108 *ET-349918 TR 25C3330 F05 TR110 ET-349081 TR 25C3333 S.T TR111 ET-353899 TR 25C3330 F05 TR112 ET-353899 TR 25C3330 F05 TR113 ET-353899 TR 25C3330 F05 TR114 ET-353899 TR 25C3330 F05 TR115 ET-353898 TR 25C3330 F05 TR116 ET-353898 TR 25C3330 F05 TR117 ET-353899 TR 25C3330 F05 TR118 ET-353899 TR 25C3330 F05 TR119 ET-353899 TR 25C3330 F05 TR110 ET-353899 TR 25C3330 F05 TR1111 ET-353899 TR 25C3330 F05 TR1111 ET-353899 TR 25C3330 F05 TR1111 ET-353899 TR 25C3330 F05 TR1106 ET-353899 TR 25C3330 F05 TR1107 ET-353899 TR 25C3330 F05 TR1108 ET-349081 TR 25C3333 F05 TR1109 ET-353899 TR 25C3330 F05 TR1109 ET-353899 TR 25C3330 F05 TR1100 ET-353899 TR 25C3330 F05 TR1101 ET-353899 T			
L3			
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TR603 ET-336997 TR 2SB808-V G,H TR604 ET-353898 TR 2SC3330 F05 TR605 ET-349081 TR 2SC3333 S,T TR606 ET-337759 TR FET 2SK246 GR TR607 ET-353898 TR 2SC3330 F05 TR608 ET-353898 TR 2SC3330 F05 TR609 ET-336997 TR 2SB808-V G,H TR610 ET-336997 TR 2SB808-V G,H TR801 ET-349081 TR 2SC3383 S,T TR802 ET-349718 TR 2SA1392 S,T TR803 ET-337759 TR FET 2SK246 GR TR804 ★ET-349459 TR 2SD1406 O,Y,GR TR805 ET-353899 TR 2SA1317 S,T,U TR806 ET-353899 TR 2SA1317 S,T,U T1 E0-337640 COIL FT 119AC-15533X 10.7MHZ T101 E0-721703J COIL 78-5016-01 T102 E0-721704J COIL 78-5017-01 T201 E0-337598 COIL VARI 2 25A-1353-01 T202 E0-337599 COIL VARI 2 25A-1354-03			
TR604 ET-353898 TR 2SC3330 F05 TR605 ET-349081 TR 2SC3383 S,T TR606 ET-337759 TR FET 2SK246 GR TR607 ET-353898 TR 2SC3330 F05 TR608 ET-353898 TR 2SC3330 F05 TR609 ET-336997 TR 2SB808-V G,H TR610 ET-336997 TR 2SB808-V G,H TR801 ET-349081 TR 2SC3383 S,T TR802 ET-349718 TR 2SA1392 S,T TR803 ET-337759 TR FET 2SK246 GR TR804 ★ET-349459 TR 2SD1406 O,Y,GR TR805 ET-353899 TR 2SA1317 S,T,U TR806 ET-353899 TR 2SA1317 S,T,U T1 E0-337640 COIL FT 119AC-15533X 10.7MHZ T101 E0-721703J COIL 78-5016-01 T102 E0-721704J COIL 78-5016-01 T201 E0-337598 COIL VARI 2 25A-1353-01 T202 E0-337599 COIL VARI 2 25A-1354-03			
TR605 ET-349081 TR 2SC3383 S,T TR606 ET-337759 TR FET 2SK246 GR TR607 ET-353898 TR 2SC3330 F05 TR608 ET-353898 TR 2SC3330 F05 TR609 ET-336997 TR 2SB808-V G,H TR610 ET-336997 TR 2SB808-V G,H TR801 ET-349081 TR 2SC3383 S,T TR802 ET-349718 TR 2SA1392 S,T TR803 ET-337759 TR FET 2SK246 GR TR804 ★ET-349459 TR 2SD1406 O,Y,GR TR805 ET-353899 TR 2SA1317 S,T,U TR806 ET-353899 TR 2SA1317 S,T,U T1 EO-337640 COIL IFT 119AC-15533X 10.7MHZ T101 EO-721703J COIL 78-5016-01 T102 EO-721704J COIL 78-5017-01 T201 EO-337598 COIL VARI 2 25A-1353-01 T202 EO-337599 COIL VARI 2 25A-1354-03			
TR606 ET-337759 TR FET 2SK246 GR TR607 ET-353898 TR 2SC3330 F05 TR608 ET-353898 TR 2SC3330 F05 TR609 ET-336997 TR 2SB808-V G,H TR610 ET-336997 TR 2SB808-V G,H TR801 ET-349081 TR 2SC3383 S,T TR802 ET-349718 TR 2SA1392 S,T TR803 ET-337759 TR FET 2SK246 GR TR804 *ET-349459 TR 2SD1406 O,Y,GR TR805 ET-353899 TR 2SA1317 S,T,U TR806 ET-353899 TR 2SA1317 S,T,U T1 E0-337640 COIL IFT 119AC-15533X 10.7MHZ T101 E0-721703J COIL 78-5016-01 T102 E0-721704J COIL 78-5017-01 T201 E0-337598 COIL VARI 2 25A-1353-01 T202 E0-337599 COIL VARI 2 25A-1354-03			
TR607 ET-353898 TR 2SC3330 F05 TR608 ET-353898 TR 2SC3330 F05 TR609 ET-336997 TR 2SB808-V G,H TR610 ET-336997 TR 2SB808-V G,H TR801 ET-349081 TR 2SC3383 S,T TR802 ET-349718 TR 2SA1392 S,T TR803 ET-337759 TR FET 2SK246 GR TR804 *ET-349459 TR 2SD1406 O,Y,GR TR805 ET-353899 TR 2SA1317 S,T,U TR806 ET-353899 TR 2SA1317 S,T,U T1 EO-337640 COIL IFT 119AC-15533X 10.7MHZ T101 EO-721703J COIL 78-5016-01 T102 EO-721704J COIL 78-5017-01 T201 EO-337598 COIL VARI 2 25A-1353-01 T202 EO-337599 COIL VARI 2 25A-1354-03			
TR609 ET-336997 TR 2SB808-V G,H TR610 ET-336997 TR 2SB808-V G,H TR801 ET-349081 TR 2SC3383 S,T TR802 ET-349718 TR 2SA1392 S,T TR803 ET-337759 TR FET 2SK246 GR TR804 *ET-349459 TR 2SD1406 0,Y,GR TR805 ET-353899 TR 2SA1317 S,T,U TR806 ET-353899 TR 2SA1317 S,T,U T1 E0-337640 COIL IFT 119AC-15533X 10.7MHZ T101 E0-721703J COIL 78-5016-01 T102 E0-721704J COIL 78-5017-01 T201 E0-337598 COIL VARI 2 25A-1353-01 T202 E0-337599 COIL VARI 2 25A-1354-03			
TR610 ET-336997 TR 2SB808-V G,H TR801 ET-349081 TR 2SC3383 S,T TR802 ET-349718 TR 2SA1392 S,T TR803 ET-337759 TR FET 2SK246 GR TR804 *ET-349459 TR 2SD1406 O,Y,GR TR805 ET-353899 TR 2SA1317 S,T,U TR806 ET-353899 TR 2SA1317 S,T,U T1 EO-337640 COIL IFT 119AC-15533X 10.7MHZ T101 EO-721703J COIL 78-5016-01 T102 EO-721704J COIL 78-5017-01 T201 E0-337598 COIL VARI 2 25A-1353-01 T202 EO-337599 COIL VARI 2 25A-1354-03	TR608	ET-353898	TR 2SC3330 F05
TR801 ET-349081 TR 2SC3383 S,T TR802 ET-349718 TR 2SA1392 S,T TR803 ET-337759 TR FET 2SK246 GR TR804 ★ET-349459 TR 2SD1406 O,Y,GR TR805 ET-353899 TR 2SA1317 S,T,U TR806 ET-353899 TR 2SA1317 S,T,U T1 EO-337640 COIL FT 119AC-15533X 10.7MHZ T101 EO-721703J COIL 78-5016-01 T102 EO-721704J COIL 78-5017-01 T201 EO-337598 COIL VARI 2 25A-1353-01 T202 EO-337599 COIL VARI 2 25A-1354-03			
TR802 ET-349718 TR 2SA1392 S.T TR803 ET-337759 TR FET 2SK246 GR TR804 ★ET-349459 TR 2SD1406 O,Y,GR TR805 ET-353899 TR 2SA1317 S.T.U T1 E0-337640 COIL FT 119AC-15533X 10.7MHZ T101 EO-721703J COIL 78-5016-01 T102 E0-721704J COIL 78-5017-01 T201 E0-337598 COIL VARI 2 25A-1353-01 T202 E0-337599 COIL VARI 2 25A-1354-03			
TR803 ET-337759 TR FET 2SK246 GR TR804 *ET-349459 TR 2SD1406 O,Y,GR TR805 ET-353899 TR 2SA1317 S,T,U TR806 ET-353899 TR 2SA1317 S,T,U T1 EO-337640 COIL IFT 119AC-15533X 10.7MHZ T101 EO-721703J COIL 78-5016-01 T102 EO-721704J COIL 78-5017-01 T201 EO-337598 COIL VARI 2 25A-1353-01 T202 EO-337599 COIL VARI 2 25A-1354-03			
TR804			
TR805 ET-353899 TR 2SA1317 S,T,U TR806 ET-353899 TR 2SA1317 S,T,U T1 E0-337640 COIL IFT 119AC-15533X 10.7MHZ T101 E0-721703J COIL 78-5016-01 T102 E0-721704J COIL 78-5017-01 T201 E0-337598 COIL VARI 2 25A-1353-01 T202 E0-337599 COIL VARI 2 25A-1354-03			
TR806 ET-353899 TR 2SA1317 S,T,U T1 E0-337640 COIL IFT 119AC-15533X 10.7MHZ T101 E0-721703J COIL 78-5016-01 T102 E0-721704J COIL 78-5017-01 T201 E0-337598 COIL VARI 2 25A-1353-01 T202 E0-337599 COIL VARI 2 25A-1354-03			
T1 E0-337640 COIL IFT 119AC-15533X 10.7MHZ T101 E0-721703J COIL 78-5016-01 T102 E0-721704J COIL 78-5017-01 T201 E0-337598 COIL VARI 2 25A-1353-01 T202 E0-337599 COIL VARI 2 25A-1354-03			
T102 E0-721704J COIL 78-5017-01 T201 E0-337598 COIL VARI 2 25A-1353-01 T202 E0-337599 COIL VARI 2 25A-1354-03		EO-337640	COIL IFT 119AC-15533X 10.7MHZ
T201 E0-337598 COIL VARI 2 25A-1353-01 T202 E0-337599 COIL VARI 2 25A-1354-03			
T202 E0-337599 COIL VARI 2 25A-1354-03			

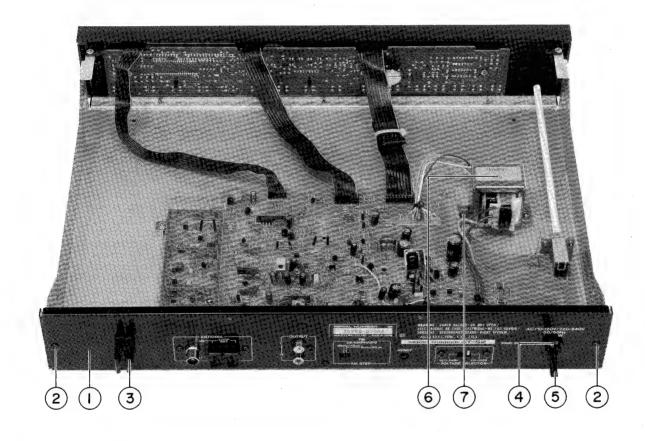
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Ref. No.	Part No.	Description
T204	EO-352089	COIL OSC 2 7BRS-9098X 580.0UH
T205	EO-721692J	COIL AM 123060
VC1	EC-721690J	C TRIMER TZ03Z100FR169
VC2	EC-721690J	C TRIMER TZ03Z100FR169
VC3	EC-721690J	C TRIMER TZ03Z100FR169
VC201	EC-721707J	C TRIMER TZ03R300FR169
VC202	EC-721707J	C TRIMER TZ03R300FR169
VR101	EV-353425	R S-FIX H RVF6P01 0.10W 103
VR201	EV-353558	R S-FIX H RVF6P01 0.10W 203
VR202	EV-371224	R S-FIX H RVF6P01 0.10W 303
VR203	EV-371224	R S-FIX H RVF6P01 0.10W 303
VR301	EV-371227	R S-FIX H RVF6P01 0.10W 304
VR302	EV-371227	R S-FIX H RVF6P01 0.10W 304
X301	El-349970	OSC CE CSB456F11 0.456MHZ
X601	El-344422	OSC X'TAL HC-18/U 7.200MHZ
F801	*EF-359342	FUSE BET T 250V 400MA
		[B,E,V]
F802	≭EF-359342	FUSE BET T 250V 400MA
		[B,E,V]
F803	≭EF-359342	FUSE BET T 250V 400MA
		[B,E,V]
F901	*EF-308933	FUSE TSC A 250V 200MA
		[U]

4. CONTROL P.C BOARD

Ref. No.	Part No.	Description
BT501	*EZ-358816	BATTERY LITHIUM BR2032-1HF
D501	ED-721694J	D LED MPG576X GRN
D502	ED-721694J	D LED MPG576X GRN
D503	ED-721695J	D ZENER H GZA22 X
D505	ED-721694J	D LED MPG576X GRN
D506	ED-723951J	D LED PR5524S RED
D507	ED-723951J	D LED PR5524S RED
D509	ED-721696J	D ZENER H GZA2.2 X
D510	ED-301911	D SILICON H DS448
D511	ED-301911	D SILICON H DS448
D512	ED-301911	D SILICON H DS448
D513	ED-301911	D SILICON H DS448
D514	ED-344280	D SILICON H GMA-01-FY2 F05
D515	ED-344280	D SILICON H GMA-01-FY2 F05
D516	ED-344280	D SILICON H GMA-01-FY2 F05
D517	ED-344280	D SILICON H GMA-01-FY2 F05
D518	ED-344280	D SILICON H GMA-01-FY2 F05
D519	ED-344280	D SILICON H GMA-01-FY2 F05
D520	ED-344280	D SILICON H GMA-01-FY2 F05
D521	ED-344280	D SILICON H GMA-01-FY2 F05 [U]
D522	ED-721694J	D LED MPG576X GRN
D523	ED-721694J	D LED MPG576X GRN
D524	ED-721694J	D LED MPG576X GRN
D525	ED-721694J	D LED MPG576X GRN
D526	ED-721694J	D LED MPG576X GRN
IB501	EH-355260	COMP R RGLD12X104J
IB502	EH-359120	COMP R RGLD4X104J
IC501	El-356457	IC BU4013B
IC502	El-356457	IC BU4013B
IC503	EI-358818	IC A3048-714 AKAI COSTOM
IC504	EJ-345551	IC LB1403
SW501	ES-349367	SW TACT SKHHAK003A
SW502	ES-349367	SW TACT SKHHAK003A
SW503	ES-349367	SW TACT SKHHAK003A
SW504	ES-349367	SW TACT SKHHAK003A
SW505	ES-349367	SW TACT SKHHAK003A
SW506	ES-349367	SW TACT SKHHAKOO3A
SW507	ES-349367	SW TACT SKHHAK003A
SW508	ES-349367	SW TACT SKHHAK003A
SW509	ES-349367	SW TACT SKHHAKOO3A
SW510	ES-349367	SW TACT SKHHAK003A
SW511	ES-349367	SW TACT SKHHAK003A
SW512	ES-349367	SW TACT SKHHAK003A
SW513	ES-349367	SW TACT SKHHAKOO3A
SW514	ES-349367	SW TACT SKHHAKOO3A

Ref. No.	Part No.	Description
SW515	ES-349367	SW TACT SKHHAK003A
SW516	ES-349367	SW TACT SKHHAK003A
TN501	EM-353670	IND FL 8-BT-29ZK CHARACTER
TR501	ET-353898	TR 2SC3330 F05
TR502	ET-349592	TR 2SC3400 F05
TR503	ET-353898	TR 2SC3330 F05
TR504	ET-349592	TR 2SC3400 F05
TR505	ET-353898	TR 2SC3330 F05
TR506	ET-353898	TR 2SC3330 F05
TR507	ET-349718	TR 2SA1392 S,T
TR508	ET-353898	TR 2SC3330 F05
TR509	ET-349718	TR 2SA1392 S,T
		[U]
X501	El-348409	OSC CE CSB400P 0.400000MHZ

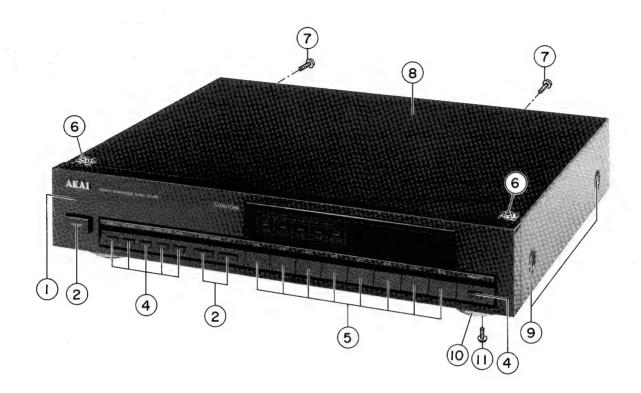
ASSEMBLY BLOCK



5. ASSEMBLY BLOCK

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1A	SP-721712J	PANEL REAR AT-52 (U) [U]	5A	*EW-359448	AC CORD 2C KP700A,VFF-CB U/T [U]
1B	SP-721257	PANEL REAR AT-52(E,V) [E,V]	5C	*EW-355033	AC CORD 2 CORES KP-419C, LTCE [E,V]
1C	SP-721244	PANEL REAR AT-52L (B)	5E	*EW-355034	AC CORD 2 CORES LTBS-2F-CB B [B]
1D	SP-721256	PANEL REAR AT-52L (E) [E]	6A	*BT-721687J	TRANS POWER AT-52 (U) [U] [T901]
2	ZS-308846 SZ-362273	T2BR30X08STL BZN PROJECTION HOLDER ANTENNA (2)	6B	*BT-721684J	TRANS POWER AT-52 / L(E,V) [E,V] [T901]
4A	*EZ-345815	STOPPER CORD CM-22A	6C	* BT-721685J	TRANS POWER AT-52/L (B) [B] [T901]
4B	★EZ-345816	STOPPER CORD CM-22B [E,V]	7	ZS-315511	ST PAN30X06STL CMT CUP
4C	*EZ-357913	STOPPER CORD CM-22C [B]			

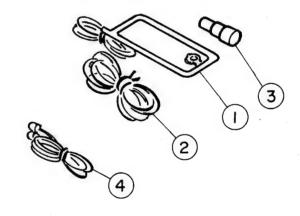
FINAL ASSEMBLY BLOCK



6. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1A-G	BD-721253	PANEL FRONT BLK AT-52-G
1A-B	BD-721252	PANEL FRONT BLK AT-52-B
1B-B	BD-721716J	PANEL FRONT BLK AT-52L-B
2-G	SK-373236A	KNOB POWER-G
2-B	SK-373236B	KNOB POWER-B
3-G	SK-721250	KNOB TUNING-G
3-B	SK-721249	KNOB TUNING-B
4-G	SK-368675A	KNOB BAND G
4-B	SK-368675B	KNOB BAND B
5-G	SK-721262	KNOB PUSH-G
5-B	SK-721261	KNOB PUSH-B
6	ZS-447840	T2BR30X08STL CMT
7	ZS-463353	T2BR30X08STL BNI
8-G	SP-368689A	COVER UPPER-G
8-B	SP-368689B	COVER UPPER-B
9-G	ZS-341959	ST BID40X06STL Ni3
9-B	ZS-341960	ST BID40X06STL BNI
10	SA-379375	FOOT(N)
11	ZS-331567	T2BR30X08STL CMT C080

ACCESSORY



7. ACCESSORY

Ref. No.	Part No.	Description			
1	EE-359265	ANT LOOP LA-200A-A			
2	EE-315329	ANT DIPOLE SAE-010			
3	EJ-352118	SOCKET COAX PAL B2-714P-900			
4	EW-344151	CORD RR-61A PINX2-PINX2			

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Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
BA-721699J	1D	ED-712928	19	EO-349462	L2	ET-349718	TR509
BA-721700J	1C	ED-712928	D807	EO-349462	L4	ET-353898	52
BA-721701J	1A	ED-715992	14	EO-349462	L5	ET-353898	TR104
BA-721702J	1B	ED-715992	D808	EO-352089	T204	ET-353898	TR105
BA-722674J	2	ED-715992	D810	EO-721689J	L6	ET-353898	TR106
BD-721252	1A-B	ED-721694J	4	EO-721691J	T203	ET-353898	TR111
BD-721252 BD-721253	1A-G	ED-721694J	D501	EO-721692J	T205	ET-353898	TR112
BD-721716J	1B-B	ED-721694J	D502	EO-721703J	T101	ET-353898	TR203
BT-721684J	3	ED-721694J	D505	EO-721704J	T102	ET-353898	TR204
BT-721684J	6B	ED-721694J	D522	ER-200940	R801	ET-353898	TR205
BT-721685J	2	ED-721694J	D523	ER-306805	R624	ET-353898	TR301
BT-721685J	6C	ED-721694J	D524	ER-322421	R812	ET-353898	TR302
BT-721687J	1	ED-721694J	D525	ER-322787	R622	ET-353898	TR602
BT-721687J	6A	ED-721694J	D526	ER-324184	R806	ET-353898	TR604
EC-320548	C801	ED-721695J	16	ER-324337	R303	ET-353898	TR607
EC-320548	C814	ED-721695J	D806		R304		
				ER-324337		ET-353898	TR608
EC-338496	C813	ED-721695J	D503	ES-337902	39	ET-353898	TR501
EC-721690J	VC1	ED-721696J	15	ES-337902	SW801	ET-353898	TR503
EC-721690J	VC2	ED-721696J	D509	ES-344439	41	ET-353898	TR505
EC-721690J	VC3	ED-723951J	5	ES-344439	SW202	ET-353898	TR506
EC-721707J	VC201	ED-723951J	D506	ES-349367	42	ET-353898	TR508
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				ES-349367			
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ED-301911	D511	EF-359342	21	ES-349367	SW506	ET-363326	TR201
ED-301911	D512	EF-359342	F801	ES-349367	SW507	EV-353425	VR101
ED-301911	D513	EF-359342	F802	ES-349367	SW508	EV-353558	VR201
ED-336832-A	11	EF-359342	F803	ES-349367	SW509	EV-371224	VR201
ED-336832-A	D1	EH-315407	24	ES-349367	SW510	EV-371224	VR203
ED-336832-A	D2	EH-315407	FL101	ES-349367	SW511	EV-371227	VR301
ED-336832-A	D3	EH-315407	FL102	ES-349367	SW512	EV-371227	VR302
ED-336832-A	D4	EH-315407	FL103	ES-349367	SW513	EW-344151	4
ED-344280	9	EH-315407	FL104	ES-349367	SW514	EW-355033	5C
ED-344280	D101	EH-344434	23	ES-349367	SW515	EW-355034	5E
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ED-344280	D106	EH-706132	FL201	ES-721688J	SW201	EZ-358816	58
ED-344280	D107	EH-721705J	26	ET-328265	55	EZ-358816	BT501
ED-344280	D109	EH-721705J	FL301	ET-328265	TR3	SA-379375	10
ED-344280	D110	EH-721705J	FL302	ET-328265	TR101	SK-368675A	4-G
ED-344280	D111	EH-721706J	27	ET-328265	TR103	SK-368675B	4-B
ED-344280	D204	EH-721706J	FL105	ET-336869	51	SK-373236A	2-G
ED-344280	D204 D205	EI-337964	29		TR2	SK-3732368	2-B
				ET-336869			
ED-344280	D601	El-337964	IC101	ET-336997	50	SK-721249	3-B
ED-344280 ED-344280	D603 D801	El-337964 El-344422	IC102 37	ET-336997 ET-336997	TR108 TR601	SK-721250 SK-721261	3-G 5-B
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				ET-336997		SP-368689A	8-G
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ED-344280	D814	El-348409	35	ET-337743	47	SP-721244	1C
ED-344280	D815	El-348409	X501	ET-337743	TR1	SP-721256	1D
ED-344280	D514	El-349963	32	ET-337759	46	SP-721257	1B
ED-344280	D515	El-349963	IC301	ET-337759	TR606	SP-721712J	1A
ED-344280	D516	El-349970	36	ET-337759	TR803	SZ-362273	3
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ED-344280	D520	El-356457	30	ET-349081	53	ZS-341959	9-G
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ED-345555	6 .	El-356457	IC502	ET-349081	TR110	ZS-447840	6
ED-345555	D804	El-358818	28	ET-349081	TR113	ZS-463353	7
ED-353692-A	12	El-358818	IC503	ET-349081	TR202		
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	D202				TR801		
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ED-357754 ED-357754	7 D803	EJ-352118 EJ-359031	3 J101	ET-349449 ET-349449	45 TR4		
ED-371782	10	EJ-719343	J301	ET-349449	TR102		
ED-371782	D201	EM-353670	38	ET-349459	57	1	
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ED-712000	17	EO-337599	T202	ET-349592	TR502		
ED-712000 ED-712000	D809	EO-337640			TR502		
			T1	ET-349592		1	
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ED-712926	D805	EO-349446	L7	ET-349718	TR109		
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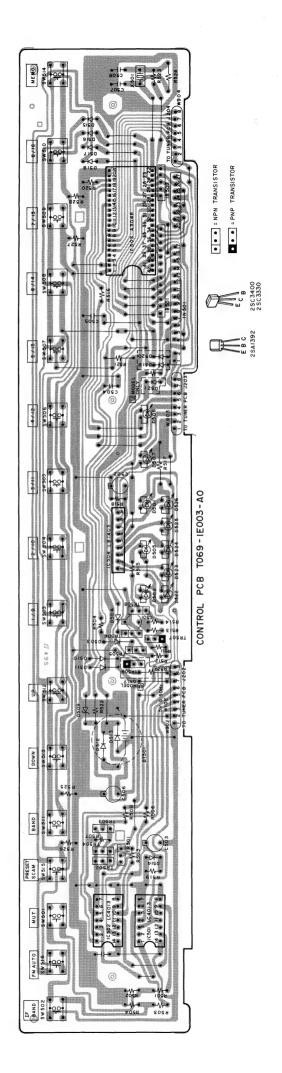
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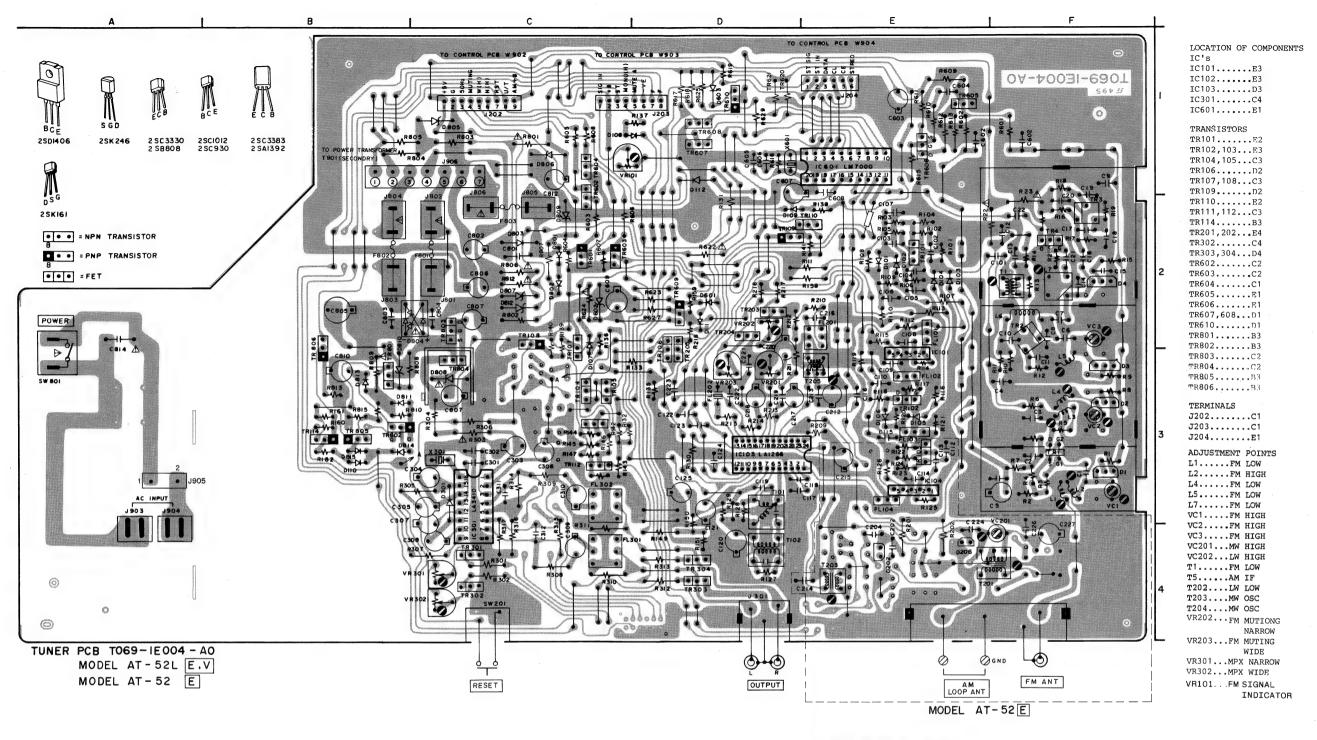
SCHEMATIC DIAGRAM AND PC BOARDS

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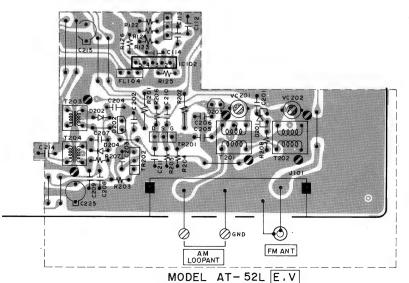


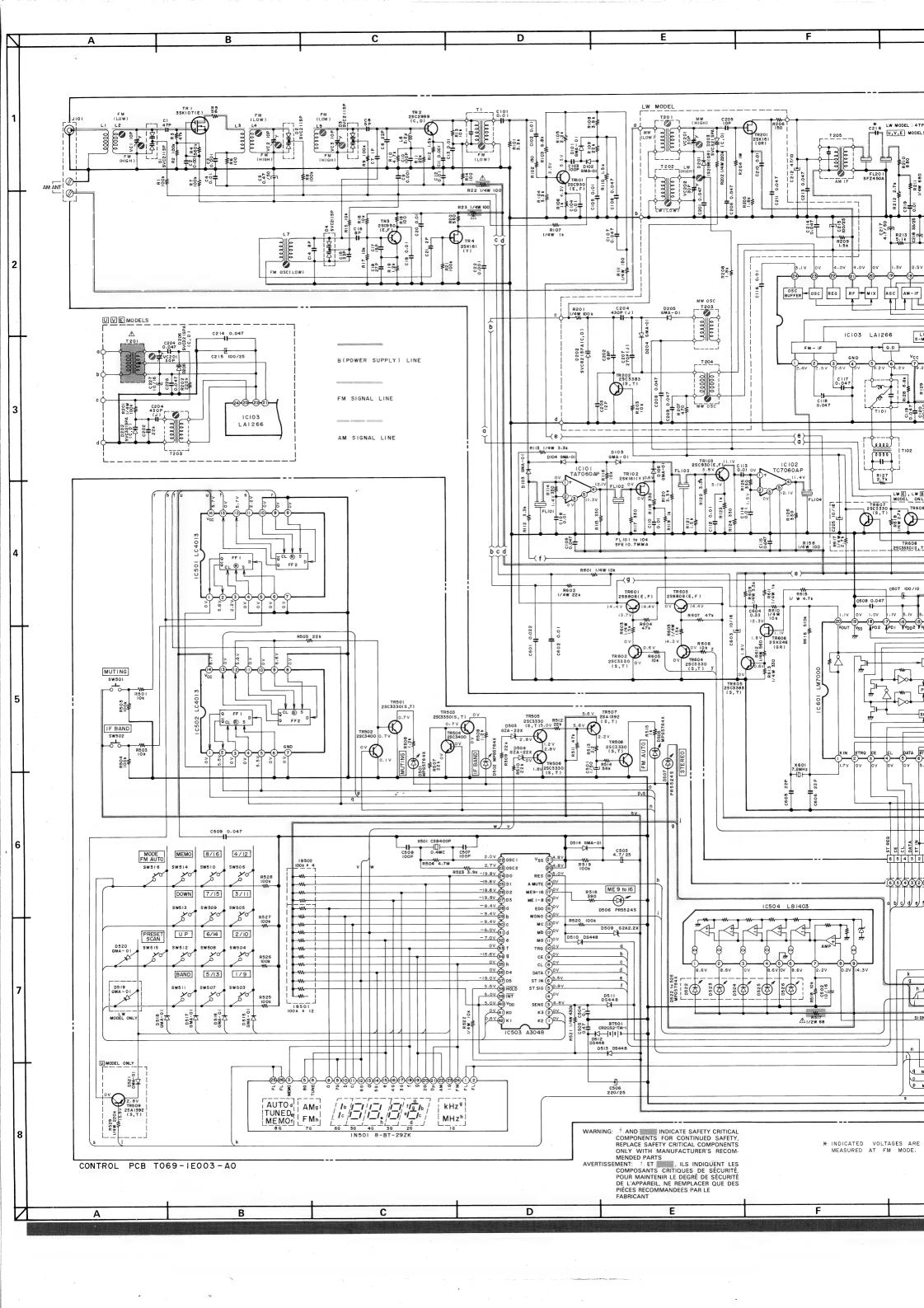
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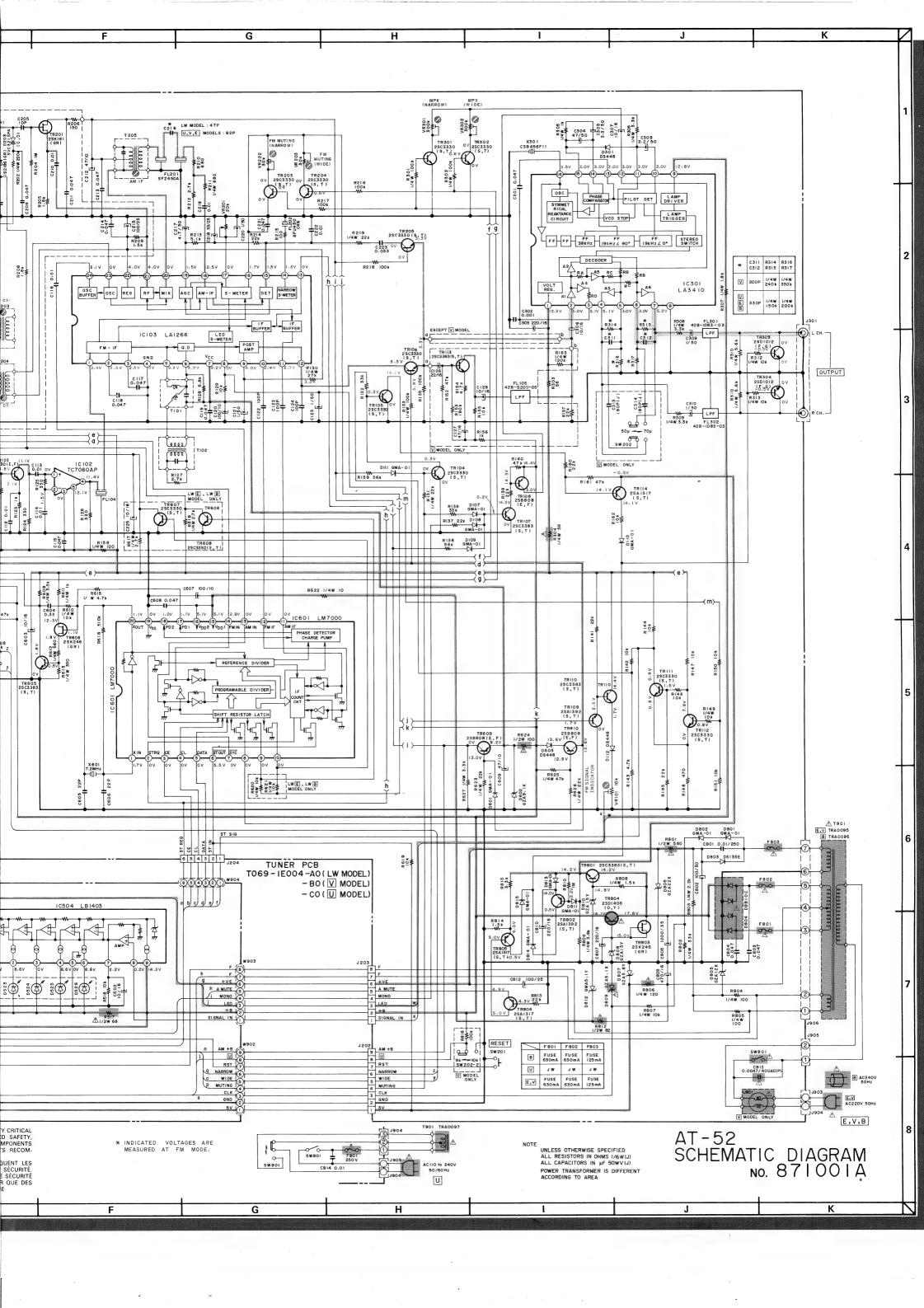


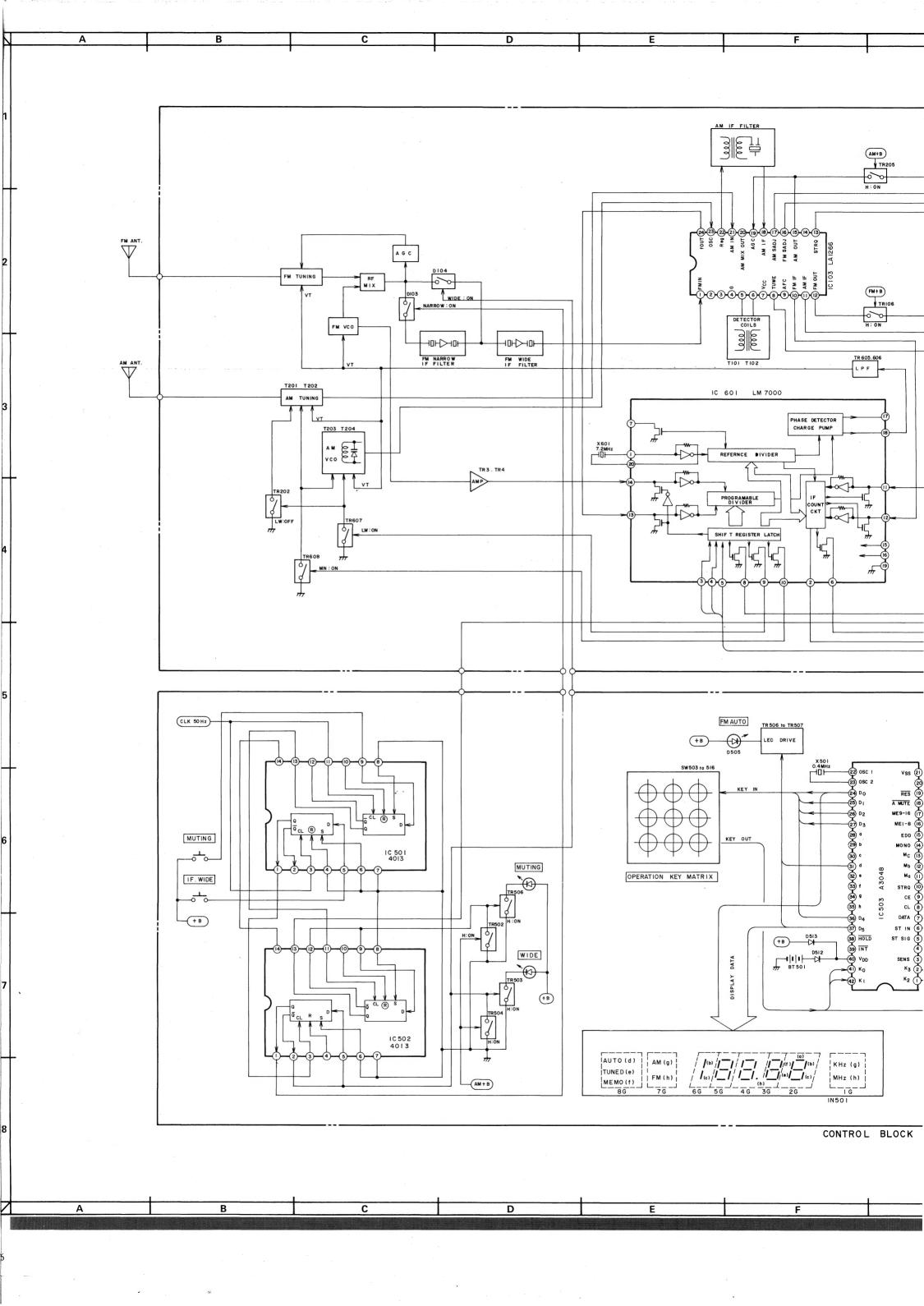
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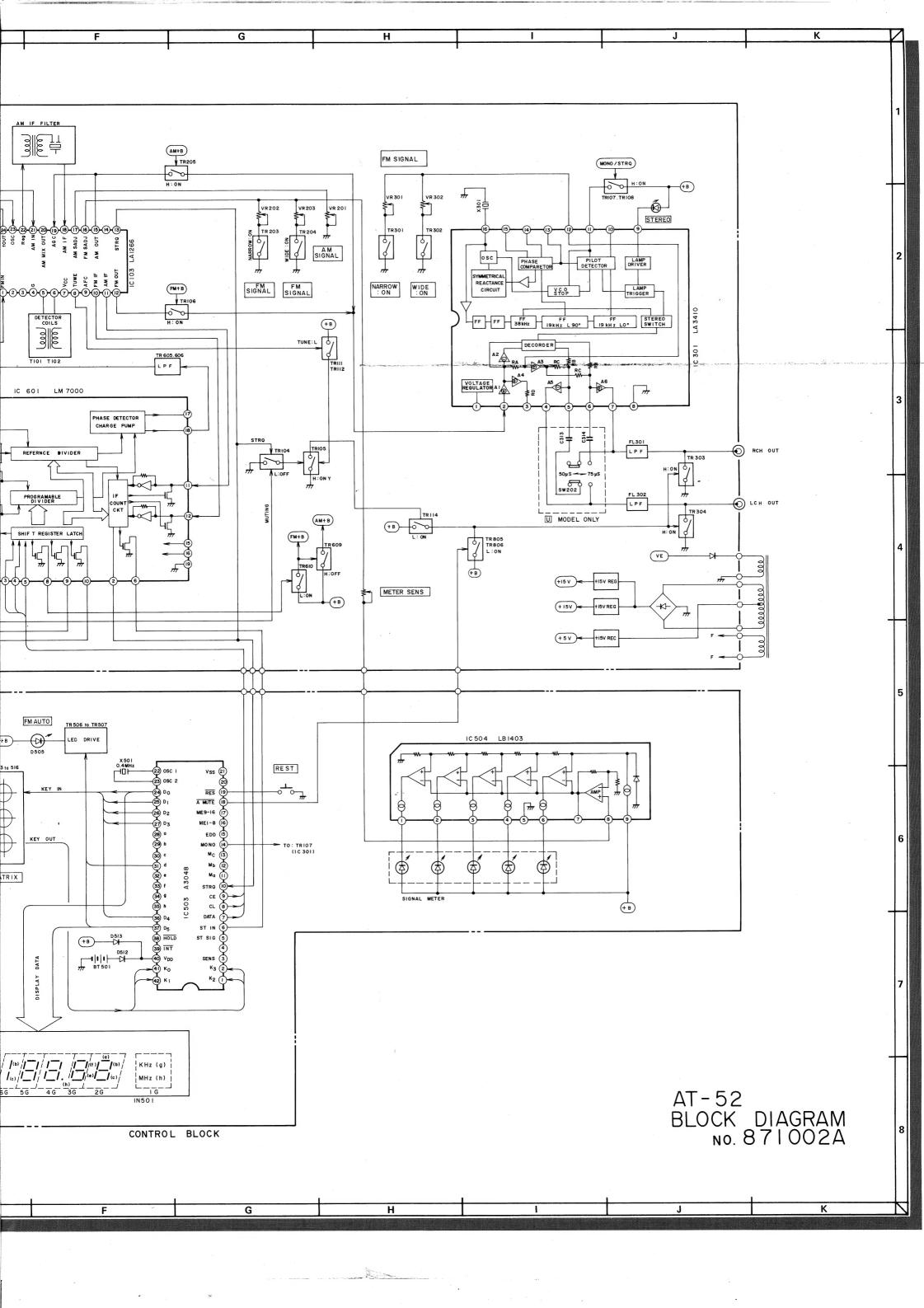
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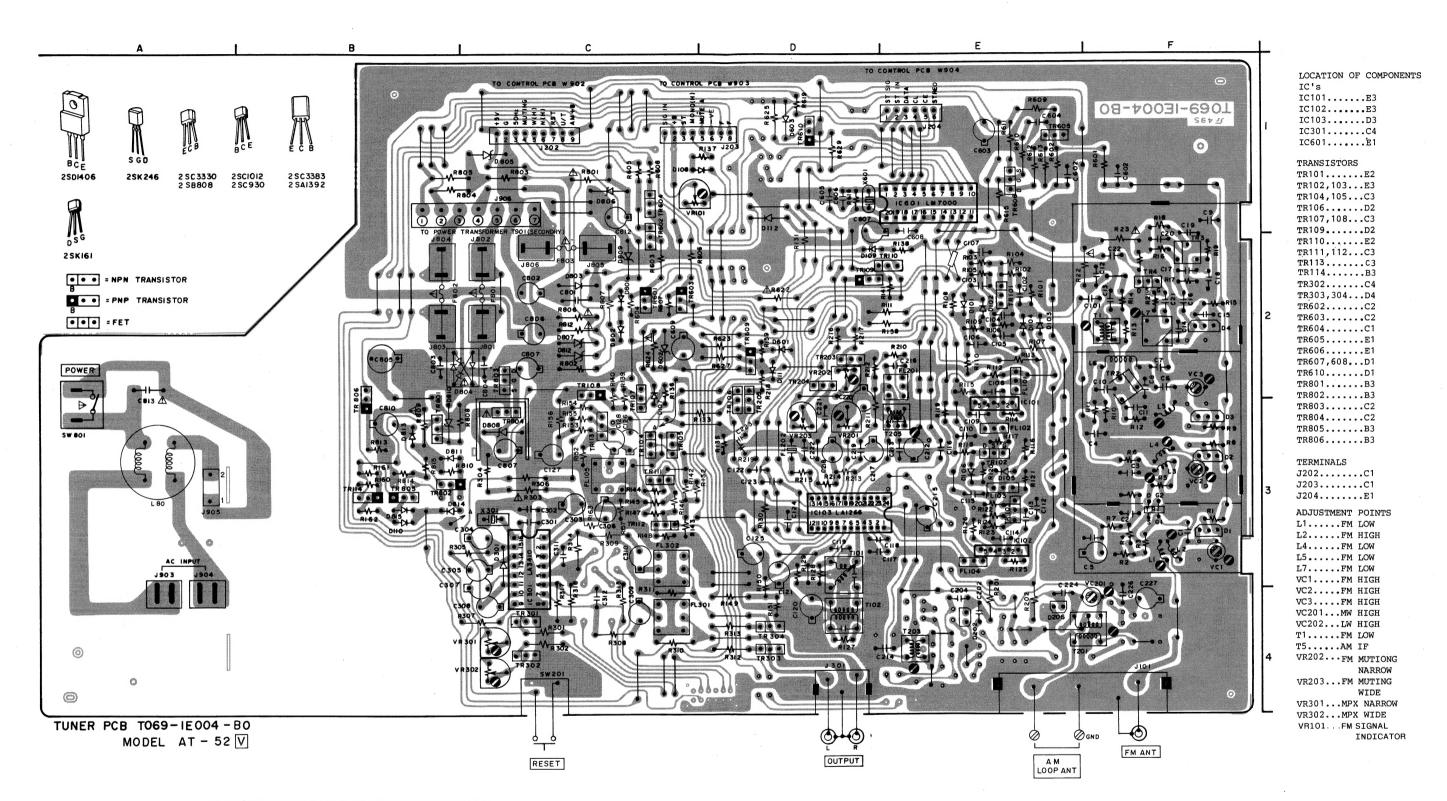








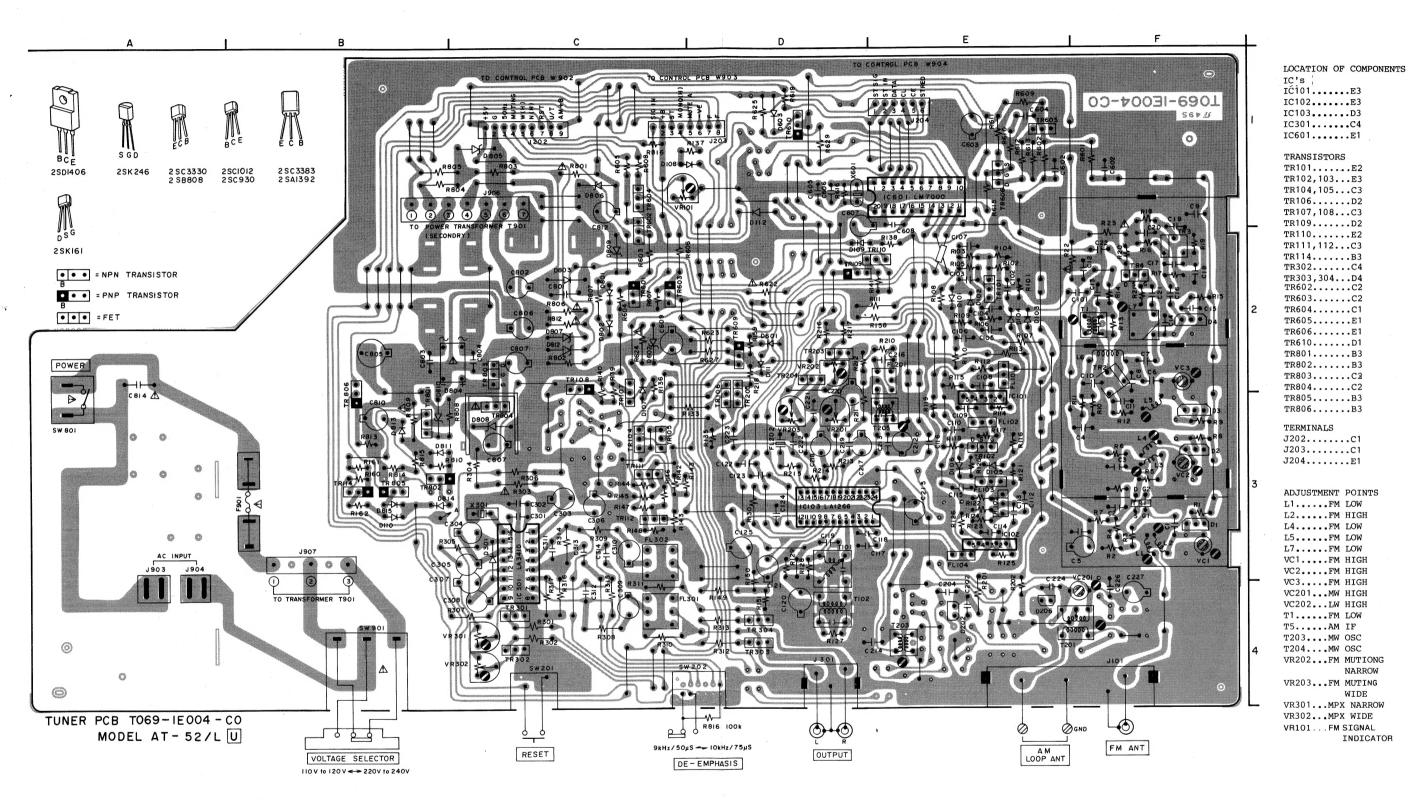




WARNING: △INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ΔIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

3



WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ÂIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT